

PATENT ABSTRACTS OF JAPAN

Reference 3

Publication number : 82-128808

(43) Date of publication of application : 30.06.1988

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AGTN 43:78
 AGTN 43:40
 AGTN 43:50
 AGTN 43:54
 //AGTN 43:78
 AGTN 55:00
 AGTN 37:34
 AGTN 37:02
 AGTN 43:40
 AGTN 55:00
 AGTN 37:34
 AGTN 37:02
 AGTN 43:50
 AGTN 53:00
 AGTN 37:34
 AGTN 37:02
 AGTN 43:54
 AGTN 55:00
 AGTN 37:34
 AGTN 37:02

(21) Application number : 01-200026

(22) Date of filing: 14.11.1988

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(54) AGRICULTURAL AND HORTICULTURAL INSECTICIDAL COMPOSITION

67 Abstract

PURPOSE: To obtain an agricultural and horticultural insecticidal composition showing improved cooperative and synergistic effects at low concentration, by combining a specific imino-substituted heterocyclic compound with at least one compound selected from specific carboxylic acid esters.

CONSTITUTION: An agricultural and horticultural insecticide consisting of an amino-substituted heterocyclic compound [e.g. 3-(3-pyridylmethyl)-2-(nitroamino) imidazolidine, etc.] shown by formula I [X is S, CH₂ or N-R₂ (R₂ is H or alkylcarbonyl); R is pyridyl or thiazolyl; m is 2 or 3; Z is NO₂ or CN] and a carboxylic acid ester [e.g. α -cyano- β -benzyloxy- β -fluoro-benzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropylcarbamoyloxy, etc.] shown by formula II [R is lower alkyl or cyclopropyl; X₁ and X₂ are H or halogen].

